



# Ziptrack

- Magnetic field measurement for JGG
- Needs floor space for 'Manipulators'
- Moves cart with Hall probes on a beam between the manipulators
  - Simultaneous measurements of  $B_x$ ,  $B_y$ ,  $B_z$  in a fine (e.g. 2" spacing) rectangular grid
- Used successfully many times (MIPP and others)
  - [http://ppd.fnal.gov/experiments/e907/MC7Enclosure/MIPPCams/MIPPCam\\_Movies.html](http://ppd.fnal.gov/experiments/e907/MC7Enclosure/MIPPCams/MIPPCam_Movies.html)



# Ziptrack

- Ziptrack must be done as soon as the new JGG coils are installed (June 2007)
- Needs new computer and software, other upgrades
- Significant lead time to get Ziptrack running
  - **MUST START THIS NOW**



# Ziptrack upgrades

- New Hall probes
- New PC (no more floppy disks!)
  - New interface to Ziptrack stepping motors and control hardware
  - Adapt existing software to work with new interface (written in ASYST language)
  - OR-
  - re-write software from scratch (e.g. In LabView) – not trivial
    - Limit switches, cart speed, zero reference, etc.

